

1 **ABSTRACT**

2 An ultrasonic detector installable on truck trailer is provided, consisting of
3 a console unit installed in the driver compartment of the vehicle, and multiple
4 ultrasonic detection units mounted on the rear section of the vehicle body. Each
5 ultrasonic detection unit comprises four transceivers, a storage battery and a
6 recharge circuit. Data communication between the ultrasonic detection units
7 and the console unit is accomplished through a cable interface or RF interface.
8 When an object is detected in the preset warning range, the alarm is initiated to
9 warn the driver. A special connector is used to adapt the night light of the
10 vehicle so as to be able to use the electricity of the night light to power the
11 transceivers of the ultrasonic detection units.